

APPLICANT(S): TRIBELSKY, Zamir et al.

SERIAL NO.: 10/566,983

FILED: February 2, 2006

Page 2

AMENDMENTS TO THE CLAIMS

Please add or amend the claims to read as follows, and cancel without prejudice or disclaimer to resubmission in a divisional or continuation application claims indicated as cancelled:

1. **(Currently Amended)** A method for ultraviolet disinfection coupling energy in order to change a mechanical and/or chemical property of target molecules or microorganisms, the method comprising:

providing ultraviolet light energy having predetermined parameters projected by at least one ultraviolet energy source;

providing a stream of liquid having a predetermined flow rate, wherein the liquid is streaming streamed within a quartz pipe surrounded by air wherein the liquid acts as a light guide;

directing said stream of liquid to a contact with a destination site; and

directing said ultraviolet light energy into said quartz pipe along a trajectory of said stream of liquid to affect target molecules or microorganism species located between the ultraviolet energy source and the destination site thereby disinfecting the liquid, wherein a light path along which ultraviolet light energy passes from the ultraviolet light source towards the destination site is entirely within the quartz pipe.

2. (Previously Presented) The method according to claim 1 comprising periodically replacing a plurality of destination sites opposite the stream of the liquid while maintaining the liquid stream in contact with each destination site.

3. (Previously Presented) The method according to claim 1 comprising moving the stream of the liquid along a plurality of destination sites while maintaining the stream of liquid in contact with each destination site.

4. (Previously Presented) The method according to claim 1, wherein the destination site is an item or substance suspected as afflicted by noxious biological or chemical species.

5. (Previously Presented) The method according to claim 1, wherein the destination site comprises a site selected from the group consisting of pre-filled containers, filled

APPLICANT(S): TRIBELSKY, Zamir et al.
SERIAL NO.: 10/566,983
FILED: February 2, 2006
Page 3

containers, surfaces, humans, mammals, vehicles, medical instrumentation, conveyors, conveyor belts, foods, fruits, vegetables, and salads.

6. - 8. (Cancelled)

9. (Previously Amended) The method according to claim 1, wherein said at least one energy source comprises a pulsed laser selected from the group consisting of a 266nm laser, and a 355nm laser.

10. (Previously Presented) The method according to claim 1, wherein the predetermined parameters comprise at least one parameter selected from the group consisting of power, wavelength, duty cycle and repetition rate.

11. -17 (Cancelled)

18. (**Currently Amended**) The method according to claim 1, wherein the ultraviolet light energy is in a CW (continuous waves) form.

19. (**Currently Amended**) The method according to claim 1, wherein the ultraviolet light energy is in a form of pulsed waves combined with continuous waves.

20 - 24. (Cancelled)

25. (Previously Amended) The method according to claim 1, further comprising monitoring at least a part of the waves of energy on at least one location between the energy source and the destination site.

26. (Previously Amended) The method according to claim 1, further comprising monitoring at least a part of the waves of energy on at least one location between the energy source and the destination site and using the monitored data for controlling the amplitude, frequency, repetition rate or duration of the energy output of the at least one energy source.

27 - 34. (Cancelled)